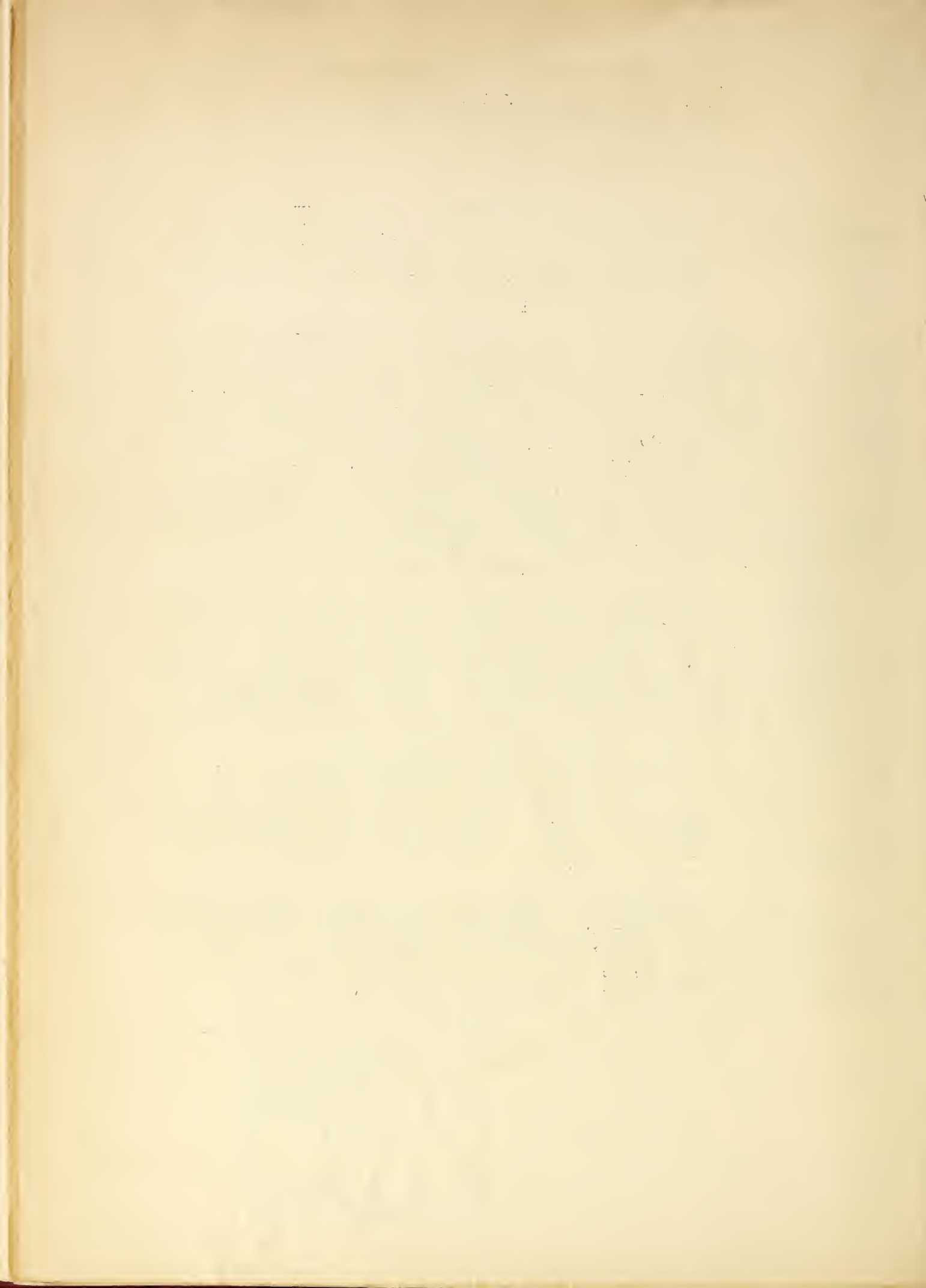


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UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH ADMINISTRATION  
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

I N S E C T P E S T - S U R V E Y

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HESSIAN FLY SURVEY AT HARVESTTIME 1947

Summarized by W. B. Cartwright  
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Field surveys made by the Bureau of Entomology and Plant Quarantine in cooperation with State agricultural agencies of Kansas, Oklahoma, Nebraska, Iowa, Missouri, Illinois, Ohio, New York, Pennsylvania and New Jersey indicate that hessian fly infestations were low in California, and in a major portion of the winter-wheat belt from western Kansas to the Atlantic Coast. Moderate infestations are present, however, in western and southwestern Nebraska, south-central and southeastern Kansas, northeastern Oklahoma, eastern Iowa, northwestern, west-central and eastern Missouri, central and southern Illinois, Kentucky, and east Tennessee, and a very heavy one is reported from northeastern Colorado. Careful observance of the safe seeding dates is recommended, especially in the areas of moderate and heavy infestations.

The data summarized in Table 1 and the accompanying map indicate more fully the regions covered by the survey and the general trend of infestations. A field sample in the survey usually consisted of 50 wheat stems.

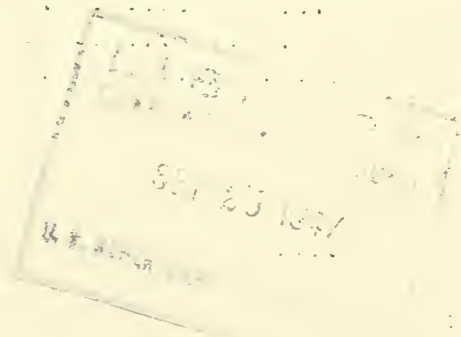


Table 1.--Hessian fly survey at harvesttime 1947.

Area	: Fields : sampled	Stems infested	
		Average	Maximum
	: Number	: Percent	: Percent
California.....	50	: 2	: 46
Colorado:			
Northeastern.....	10	: 35	: 58
Nebraska: <sup>1/</sup>			
Western.....	13	: 12	: 50
Southwestern.....	66	: 15	: 71
South-central.....	78	: 4	: 68
Southeastern.....	157	: 1	: 12
Kansas: <sup>1/</sup>			
Northwestern.....	79	: 6	: 68
Southwestern.....	42	: Trace	: 4
North-central.....	123	: 7	: 52
South-central.....	129	: 16	: 98
Northeastern.....	111	: 7	: 86
Southeastern.....	61	: 8	: 64
Oklahoma: <sup>1/</sup>			
Northwestern.....	15	: 0	: 0
North-central.....	40	: 4	: 30
Northeastern.....	38	: 16	: 60
Iowa: <sup>1/</sup>			
Northwestern.....	5	: 2	: 4
Southwestern.....	11	: 2	: 4
North-central.....	1	: 2	: 2
South-central.....	5	: 4	: 12
Northeastern.....	2	: 9	: 18
Southeastern.....	9	: 8	: 14
Missouri: <sup>1/</sup>			
Northwestern.....	20	: 9	: 44
West-central.....	24	: 11	: 24
Southwestern.....	41	: 5	: 14
Arkansas:			
Northwestern.....	3	: 2	: 4
Illinois: <sup>1/</sup>			
Northern.....	18	: 4	: 10
Central and southern.....	124	: 9	: 46
Michigan:			
Southern.....	55	: 3	: 44

Table 1.--Continued.

Area	Fields	Stems infested	
	sampled	Average	Maximum
	Number	Percent	Percent
Indiana.....	256	7	50
Ohio: <sup>1/</sup> .....	200	3	-
Kentucky:			
Western.....	36	9	52
Eastern.....	21	11	32
Tennessee:			
West-central.....	40	7	34
South-central and east.....	62	23	88
New York <sup>1/</sup>			
Western.....	101	6	42
Pennsylvania: <sup>1/</sup> .....	126	4	76
New Jersey: <sup>1/</sup> .....	53	4	30
Delaware.....	15	3	10
Maryland.....	75	3	28
Virginia.....	257	2	18
North Carolina:			
Central.....	146	6	66
South Carolina:			
Western.....	70	1	14
Georgia:			
Northeastern.....	74	5	36

<sup>1/</sup> In cooperation with State entomologists.





Numbers indicate percentage of stems infested. Cross-hatching indicates from moderate to heavy infestation.

